



## CHIRALCEL OF

### Instruction Sheet

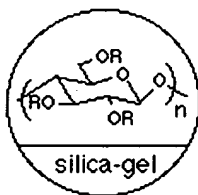
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**CAUTION :** Some of the most popular eluents for HPLC (such as acetone, acetonitrile, chloroform, DMF, DMSO, ethanol, ethyl acetate, water, methanol, methylene chloride, 2-propanol, and THF) remaining in your HPLC system may destroy this column. *Be careful not to connect the column to your HPLC system before the system is completely flushed with the appropriate eluent .* Please read this instruction sheet completely before using this column.

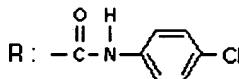
#### Column Description:

Column Size: 250 x 4.6 mm (L x I.D.)

Packing Composition:



Cellulose tris(4-chlorophenyl carbamate)  
on a 10 $\mu$ m silica-gel substrate



This column has been pre-tested before packaging. Test parameters and results, as well as the Column Lot Number are included on a separate (enclosed) page.

#### Operating Restrictions :

Flow Direction: As indicated by arrow on column label

Flow Rate: Maintain flow rate that will result in column pressures of less than 700 psi (50 kg/cm<sup>2</sup>)

Typical flow rate is 1.0 ml/min.; DO NOT EXCEED 1.5 ml/min.

Temperature: 0 °C - 40 °C.

Pressure: 700 psi, MAXIMUM; less than 430 psi is recommended for maximum column life.

**Recommended Operating Procedure :** - Sample/eluent solution should be filtered through a 0.45  $\mu$ m membrane filter. The use of a guard column is recommended for maximum column life.

- Suitable Mobile Phases include:

- **Hexane/2-Propanol (100/0 to 50/50 v/v)** Typical Mobile Phase used is Hexane/2-Propanol (90/10 v/v).

- Suitable Mobile Phase Modifiers include N,N-Diethylamine for a basic sample, and Trifluoroacetic

acid for an acidic sample.

(NOTE: Minimize use of the modifier. Typical use is 0.1%; *maximum* 0.5%)

Notes: 1. Retention time is generally shorter with a higher alcohol content.

1. If your sample is basic and shows a considerable tailing of the elution peaks, Diethylamine may be added (less than 0.5% (typically, 0.1%): please see above).
2. The use of other solvents is possible, but effectiveness and compatibility *cannot be guaranteed*. **Use of alternative solvents may destroy this column. Please contact us for assistance before trying other solvents.**

**Maintenance** : The mobile phase should be displaced with Storage Solvent (Hexane / 2-Propanol = 9 / 1) when stored more than a week.

When washing is required, use Hexane/2-Propanol (50/50 v/v) at 0.3ml/min for 3 hours.

*Important Notice* :

- **STRONGLY BASIC COMPOUNDS MUST BE AVOIDED**, because they are likely to damage the silica gel used in this column.
- **This instruction is not applicable to any other DAICEL Columns.**
- **If you have questions** about the use of this column, or encounter problems in its use, please E-mail for assistance. Operation of this column in accordance with the guidelines outlined here will result in a long column life.
- For guidance concerning the selection of DAICEL columns, please refer to the publication , available from us.

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